

# Obesity and Diabetes Prevention -Surgical and Public Health Approaches-

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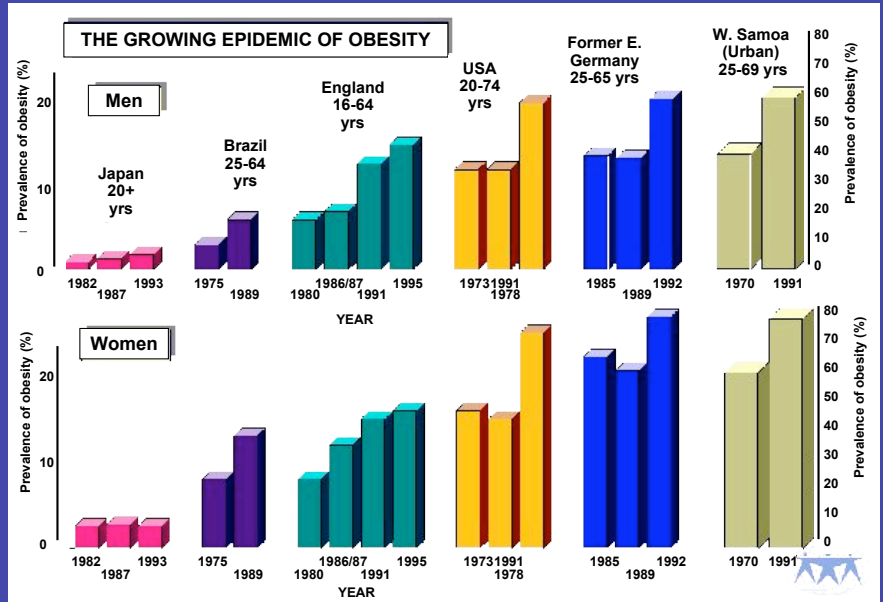


Major non-communicable disease epidemics

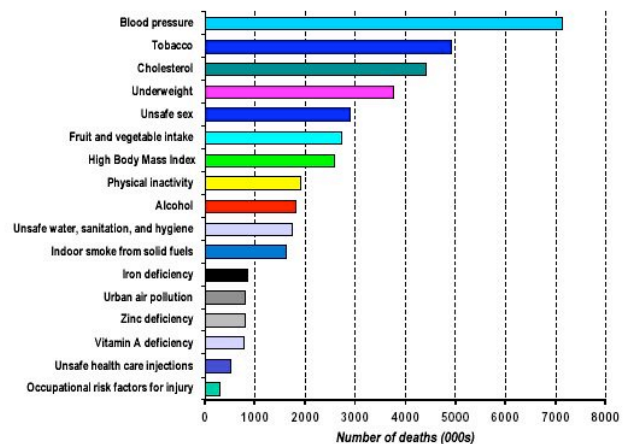
## Obesity & Diabetes



## The Increasing Prevalence of Obesity in Adults World-wide



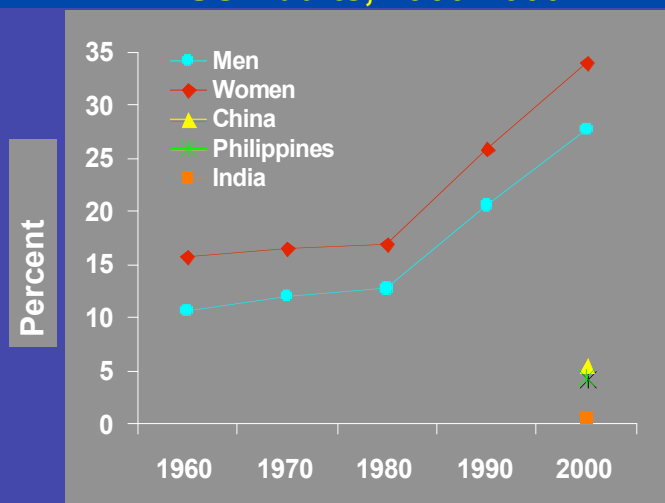
## World Deaths in 2000 attributable to selected leading risk factors



## Obesity increases the chance that you will develop one of the following diseases:

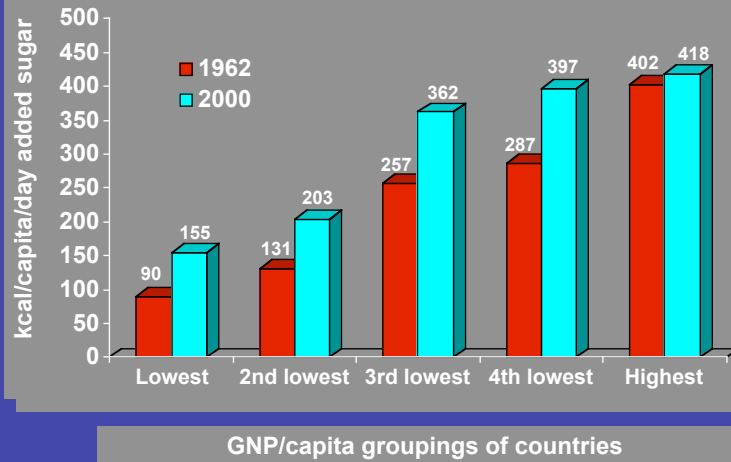
- High blood pressure
- Diabetes mellitus
- Elevated Cholesterol
- Arthritis
- Sleep Apnea
- Gallstones
- Stroke or Heart Attack
- Cancer
  - Uterus, cervix, prostate, colon/rectal, gallbladder, breast

## Prevalence of Obesity (BMI $\geq 30$ ) in US Adults, 1960-2000

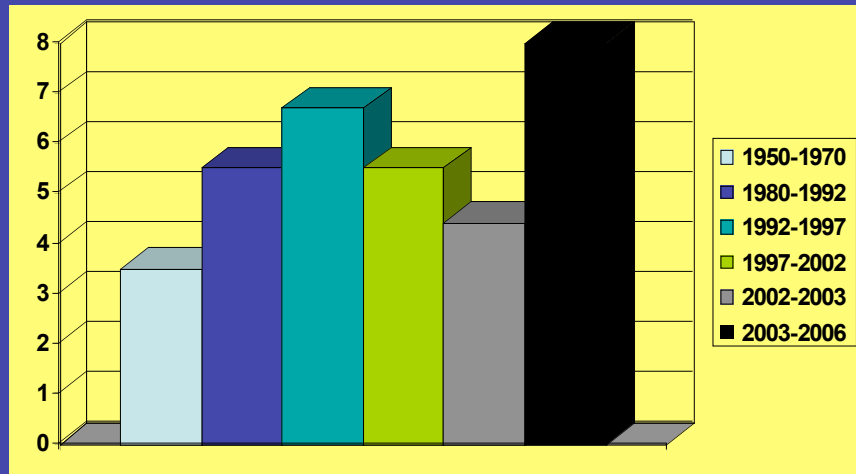


Flegel et al., 2002

## The relationship between changes in GNP per capita and caloric sweetener.



## India's economy (GDP %)



A World Bank report, *India and the Knowledge Economy: Leveraging Strengths and Opportunities*, was launched in Washington DC on June 28, 2005.

## Diabetes Mellitus

- Accounts for 1.7% as a reason for mortality from non-communicable disease
  - World Almanac 2006
- Number of cases of diabetes mellitus increasing at alarming rates
  - obesity, life-style changes responsible
  - U.S.
    - In 2005, 16.2 million people had a diagnosis of diabetes, for a prevalence of 5.62%
    - Projected to reach 12.5% by 2050
      - Diabetes Care 2006

## Concluding comments

- Obesity and diabetes
  - Need a care model that will address both issues
- Symposium
  - Address medical care including surgical aspects
  - Address public health issues
- Partnership with ICMR
  - Launch of a collaborative study
    - India site will be flagship site